LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DOTD 03-22-4194
English
Rev. 4/98

LABORATORY MOISTURE - DENSITY RELATIONSHIP
DOTD TR 418 - Methods A & B
(English)

PROJECT NO: _____ DATE: _____ LAB NO: _____

*TYPE ADDITIVE: _____ TYPE SOIL: _____ SAMPLE NO: _____

TESTED BY: _____ CHECKED BY: _____

*MAX. DRY DENSITY OF SOIL (___ TR 418-A, ___ TR 415-A), lb/ft^3	A		
*REQUIRED % BY VOL. OF ADDITIVE (__ TR 432-A, __ TR 432-B, __ TR 416, __ specified)	B		
*% WT. OF ADDITIVE (____ chart, ____ formula)	C		
DRY WT. OF SOIL (Representative portion), lb	D		
*WT. OF ADDITIVE TO BE ADDED, lb	E	(C x D) ÷ 100	
*TOTAL DRY WT. OF SOIL AND ADDITIVE, lb	F	D + E	

* ***FOR USE WITH DOTD TR 418, METHOD B ONLY.***

CURVE POINT NO.	***		1	2	3	4	5	6
MOISTURE CUP NO.	***							
WATER ADDED, mL	G	See Calculations						
WT. MOLD, BASE (if appl.) & WET SOIL, lb	H							
WT. MOLD & BASE (if applicable), lb	I							
WT. WET COMPACTED SOIL, lb	J	H - I						
WT. OF CUP & WET SOIL, g	K							
WT. OF CUP & DRY SOIL, g	L							
WT. OF WATER, g	WW	K - L						
WT. OF CUP & DRY SOIL, g	L							
WT. OF CUP, g	M							
WT. OF DRY SOIL, g	DW	L - M						
WET DENSITY, lb/ft^3	WWD	J x 30						
MOISTURE CONTENT, %	MC	(WW/DW) x 100						
DRY DENSITY, lb/ft^3	DWD	$\frac{WWD}{100 + MC} \times 100$						

REMARKS: _____